

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P955452

Luminaire Tested: **GALN-SB8B-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23075 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

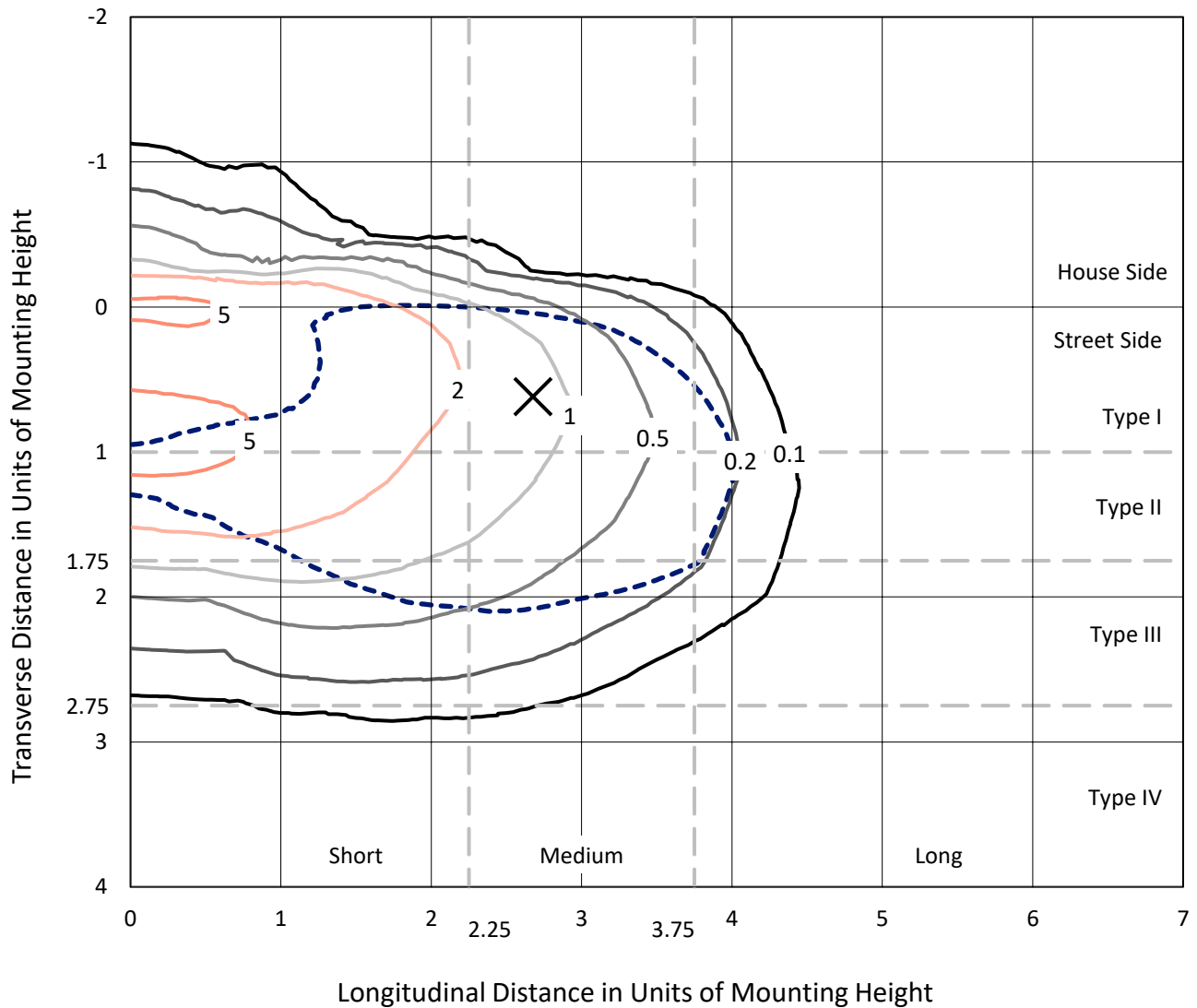
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

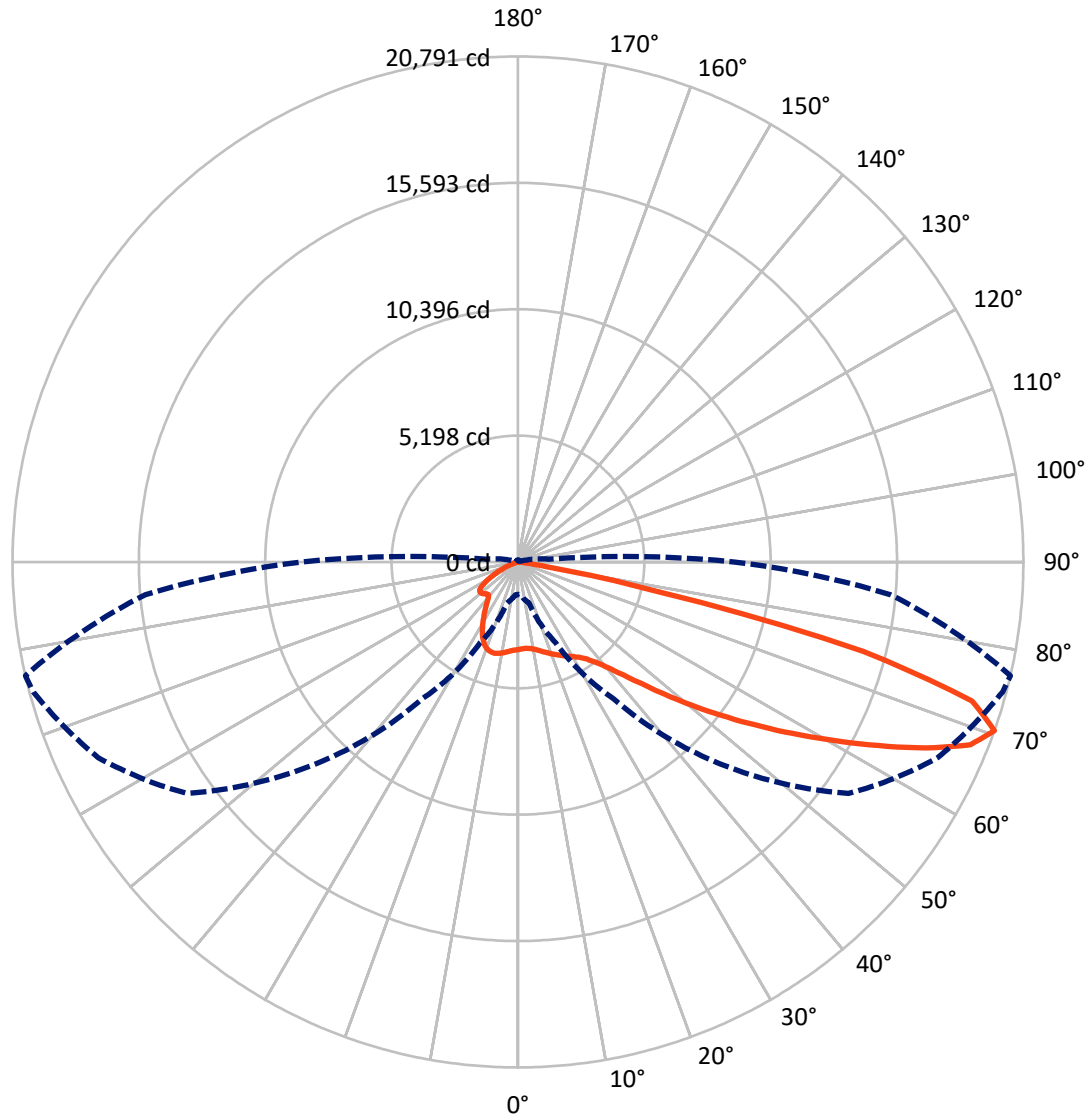
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2432.4	0.0	2432.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20642.6	0.0	20642.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	23075.0	0.0	23075.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.2	1.3
10°-20°	736.4	3.2
20°-30°	1139.0	4.9
30°-40°	2066.7	9.0
40°-50°	3901.2	16.9
50°-60°	5636.9	24.4
60°-70°	6000.4	26.0
70°-80°	3179.8	13.8
80°-90°	104.4	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23075.0	100.0
0°-180°	23075.0	100.0

Coefficient of Utilization



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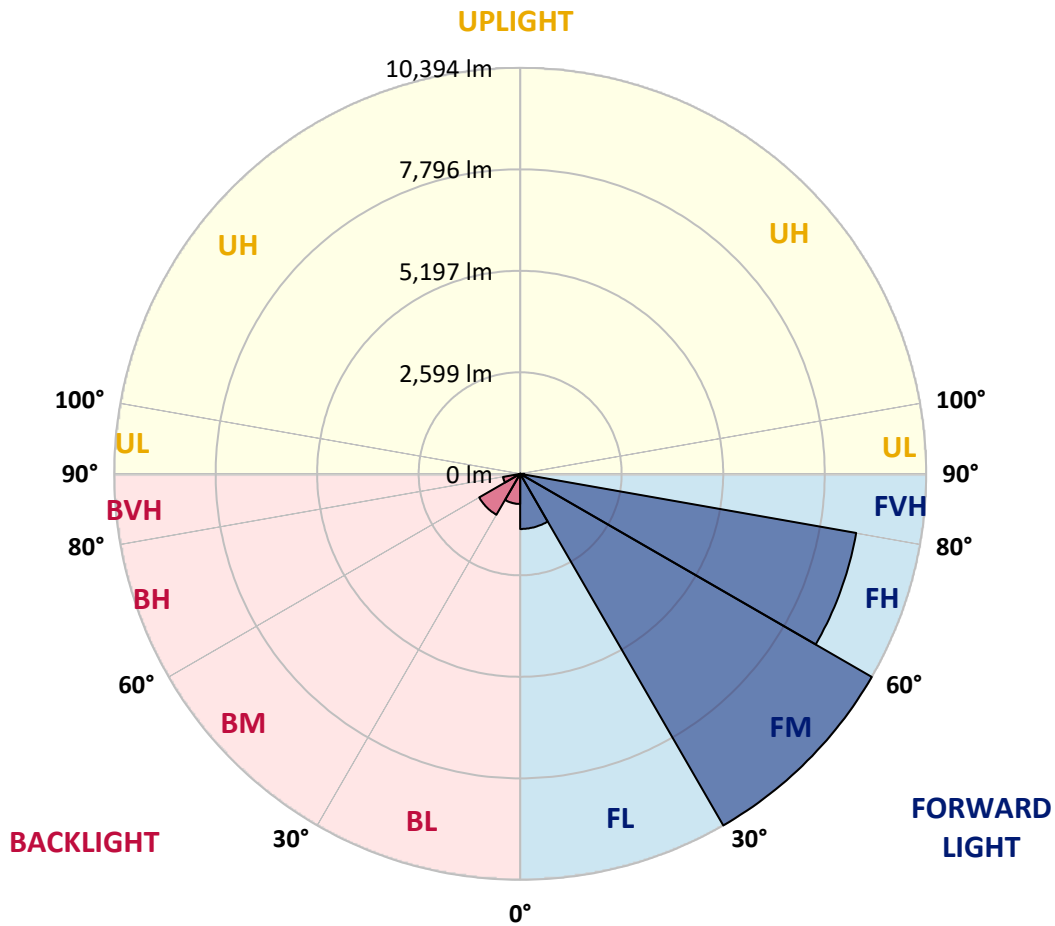
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1412.7	6.1			
FM (30°-60°)	10394.0	45.0			
FH (60°-80°)	8734.2	37.9			G4/12000
FVH (80°-90°)	101.6	0.4			G2/225
BL (0°-30°)	772.8	3.3	B2/1000		
BM (30°-60°)	1210.9	5.2	B2/2500		
BH (60°-80°)	445.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3599.3	3599.3	3599.3	3599.3	3599.3	3599.3	3599.3	3599.3	3599.3	3599.3
2.5°	3379.2	3409.8	3405.5	3425.9	3433.2	3462.3	3491.5	3530.8	3574.5	3573.1
5°	3188.4	3219.0	3226.2	3253.9	3288.9	3334.1	3393.8	3472.5	3554.1	3567.2
7.5°	2962.5	2994.5	3013.5	3068.9	3133.0	3226.2	3323.9	3439.0	3574.5	3593.5
10°	2736.6	2765.8	2790.5	2869.2	2971.2	3109.7	3268.5	3434.6	3616.8	3644.5
12.5°	2596.7	2624.4	2652.1	2720.6	2847.4	3016.4	3232.1	3455.0	3686.7	3726.1
15°	2547.2	2572.0	2593.8	2655.0	2773.1	2965.4	3224.8	3497.3	3775.6	3828.1
17.5°	2554.5	2567.6	2582.2	2628.8	2743.9	2942.1	3237.9	3570.1	3880.5	3927.2
20°	2596.7	2604.0	2605.5	2637.5	2739.5	2939.2	3264.1	3640.1	3979.6	4042.3
22.5°	2650.6	2653.6	2650.6	2672.5	2767.2	2961.0	3299.1	3724.6	4090.4	4148.6
25°	2902.7	2847.4	2777.4	2735.2	2813.9	3003.3	3351.6	3838.3	4211.3	4268.1
27.5°	3685.3	3526.4	3275.8	2994.5	2910.0	3064.5	3424.4	3953.4	4333.7	4384.7
30°	4955.9	4747.6	4322.1	3688.2	3219.0	3192.7	3519.1	4068.5	4463.4	4518.8
32.5°	6229.5	6178.5	5687.5	4810.2	3914.0	3478.3	3676.5	4224.4	4635.4	4679.1
35°	7517.7	7414.2	7012.0	6145.0	4985.1	4059.8	3938.8	4428.4	4861.2	4910.8
37.5°	8504.2	8441.6	8192.4	7478.3	6255.8	4957.4	4387.6	4744.6	5189.1	5244.5
40°	9375.6	9346.5	9262.0	8791.3	7676.5	6131.9	5085.6	5234.3	5643.7	5709.3
42.5°	10060.5	10129.0	10177.1	10045.9	9141.0	7472.5	6024.1	5922.1	6277.6	6344.6
45°	10761.4	10784.7	10978.5	11168.0	10595.3	8874.3	7082.0	6727.9	7066.0	7149.0
47.5°	11211.7	11305.0	11645.9	11979.6	11817.9	10264.5	8218.6	7679.4	7979.6	8135.5
50°	11245.2	11421.5	11890.7	12472.2	12708.2	11587.7	9454.3	8763.6	9082.7	9254.7
52.5°	10687.1	10961.1	11688.2	12539.2	13189.1	12708.2	10732.3	9847.8	10257.2	10481.6
55°	8193.8	8552.3	10926.1	12174.9	13208.1	13557.8	11976.7	10977.1	11565.8	11819.3
57.5°	7138.8	7319.5	8590.2	11542.5	12856.9	13900.2	13101.7	12052.5	12989.5	13304.2
60°	5939.5	6177.1	7204.4	10507.9	12380.4	13933.7	14095.5	13439.8	14532.7	14886.8
62.5°	4036.4	4294.4	5315.9	8730.1	11729.0	13917.7	14910.1	14867.8	16247.8	16628.1
65°	2500.6	2662.3	3335.5	7128.6	10818.3	13935.2	15762.5	16601.9	18057.6	18443.8
67.5°	1976.0	2050.3	2401.5	5473.2	9248.8	13541.8	16613.5	18232.5	19761.1	20067.1
70°	1327.5	1372.7	1747.2	3669.2	6880.9	11726.1	16597.5	19051.4	20638.3	20791.3
72.5°	699.5	734.4	1021.5	1699.1	4155.9	8335.2	13990.6	18072.2	19765.5	19535.2
75°	349.7	408.0	687.8	862.7	1774.9	4648.5	8687.8	14248.5	15557.1	14665.3
77.5°	265.2	320.6	568.3	568.3	617.9	1565.0	3679.4	7771.2	7168.0	5968.7
80°	169.0	218.6	496.9	429.9	257.9	397.8	958.8	2177.1	1522.8	1158.5
82.5°	99.1	142.8	413.8	284.2	144.3	147.2	271.0	463.4	394.9	307.5
85°	39.3	93.3	284.2	112.2	56.8	36.4	81.6	99.1	81.6	61.2
87.5°	0.0	21.9	49.5	0.0	4.4	2.9	5.8	7.3	7.3	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3599.3	0°	3599.3	3599.3	3599.3	3599.3	3599.3	3599.3	3599.3	3599.3	3599.3	3599.3
3602.2	2.5°	3615.3	3618.2	3627.0	3628.4	3608.0	3581.8	3571.6	3567.2	3549.7	3548.3
3625.5	5°	3659.0	3672.1	3659.0	3621.1	3530.8	3404.0	3307.8	3229.2	3157.8	3135.9
3705.7	7.5°	3746.5	3759.6	3720.2	3571.6	3344.3	3092.2	2864.9	2704.6	2560.3	2506.4
3803.3	10°	3871.8	3889.3	3765.4	3465.2	3063.0	2657.9	2273.2	2002.2	1790.9	1704.9
3935.9	12.5°	4029.2	4036.4	3790.2	3303.5	2697.3	2118.8	1573.8	1283.8	1095.8	1025.9
4096.2	15°	4202.6	4192.4	3793.1	3083.4	2198.9	1498.0	1027.3	843.7	767.9	744.6
4256.5	17.5°	4384.7	4342.5	3734.8	2765.8	1652.5	1024.4	762.1	718.4	705.3	699.5
4415.3	20°	4563.9	4469.2	3628.4	2350.5	1186.2	765.0	692.2	679.1	671.8	668.9
4575.6	22.5°	4727.2	4565.4	3446.3	1868.1	861.2	676.1	654.3	642.6	629.5	623.7
4731.5	25°	4886.0	4620.8	3189.8	1417.9	689.3	632.4	614.9	593.1	575.6	568.3
4899.1	27.5°	5040.5	4655.8	2869.2	1049.2	614.9	591.6	559.6	529.0	515.8	512.9
5078.3	30°	5205.1	4667.4	2504.9	782.5	569.8	540.6	494.0	459.0	451.7	453.2
5320.2	32.5°	5406.2	4684.9	2137.7	641.2	531.9	479.4	424.0	387.6	381.8	387.6
5672.9	35°	5646.6	4719.9	1783.6	590.2	498.4	416.8	357.0	326.4	320.6	325.0
6124.6	37.5°	5973.1	4776.7	1452.8	580.0	470.7	364.3	300.2	275.4	275.4	276.9
6678.3	40°	6407.3	4928.2	1157.0	572.7	456.1	325.0	253.6	243.4	247.7	250.6
7383.6	42.5°	6936.3	5250.3	957.4	563.9	440.1	307.5	230.2	225.9	233.2	236.1
8228.8	45°	7529.4	5658.3	887.4	549.4	425.5	319.1	220.0	214.2	223.0	224.4
9176.0	47.5°	8142.8	6057.6	878.7	533.3	410.9	336.6	217.1	204.0	214.2	215.7
10187.3	50°	8763.6	6318.4	887.4	508.6	387.6	336.6	218.6	193.8	202.6	206.9
11236.5	52.5°	9388.7	6437.9	881.6	454.6	346.8	316.2	218.6	185.1	193.8	196.7
12370.2	55°	9994.9	6414.6	792.7	374.5	294.4	279.8	212.8	177.8	183.6	185.1
13441.2	57.5°	10474.4	6089.6	628.1	291.4	239.0	233.2	193.8	169.0	173.4	171.9
14423.4	60°	10725.0	5375.6	448.8	224.4	188.0	183.6	170.5	157.4	160.3	153.0
15255.4	62.5°	10727.9	4431.3	300.2	177.8	150.1	145.7	145.7	141.3	138.4	123.9
15899.5	65°	10499.1	3383.6	199.6	141.3	120.9	113.7	122.4	120.9	110.7	90.3
16096.2	67.5°	9980.4	2217.9	151.5	110.7	93.3	88.9	97.6	102.0	94.7	75.8
15379.3	70°	8913.7	1291.1	125.3	86.0	69.9	65.6	78.7	87.4	78.7	61.2
13145.4	72.5°	7404.0	696.5	102.0	64.1	48.1	43.7	62.7	71.4	62.7	45.2
8434.3	75°	4804.4	373.0	78.7	42.3	24.8	27.7	46.6	52.5	43.7	29.1
2475.8	77.5°	1613.1	164.7	49.5	20.4	11.7	11.7	27.7	32.1	20.4	10.2
450.3	80°	359.9	68.5	20.4	8.7	4.4	4.4	5.8	5.8	2.9	0.0
138.4	82.5°	118.0	27.7	8.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
35.0	85°	45.2	10.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.7	87.5°	17.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
3599.3
3551.2
3122.8
2484.5
1668.5
1004.0
744.6
698.0
665.9
622.2
565.4
510.0
453.2
386.2
323.5
275.4
250.6
236.1
225.9
217.1
208.4
196.7
185.1
171.9
151.5
119.5
87.4
74.3
58.3
43.7
26.2
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